

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of the Claims:

1. (Original) A reactive shaped charge liner comprising a stoichiometric composition of two metals whereby the liner is capable, in operation, of an exothermic reaction upon activation of an associated shaped charge, and in which the two metals are provided in respective proportions calculated to give an electron concentration of 1.5.
2. (Currently amended) A liner according to ~~any preceding~~ claim 1 in which one of the metals is aluminium.
3. (Currently amended) A liner according to ~~any preceding~~ claim 1 in which one of the metals is selected from nickel and palladium.
4. (Currently amended) A liner as claimed in ~~any one of the preceding claims~~ claim 1 wherein the composition is a pressed particulate composition.
5. (Currently amended) A liner according to ~~any preceding~~ claim 1, wherein a binder is added to aid consolidation.
6. (Currently amended) A liner according to ~~any preceding~~ claim 1, wherein at least one of the metals is coated with a binder to aid consolidation
7. (Currently amended) A liner according to ~~any one of claims 5-6~~ claim 5, wherein the binder is selected from a polymer.
8. (Original) A liner according claim 7 wherein the polymer is selected from a stearate, wax or epoxy resin.

9. (Original) A liner according to claim 7, wherein the polymer is an energetic polymer.
10. (Original) A liner according to claim 9, wherein the energetic binder is selected from Polyglyn (Glycidyl nitrate polymer), GAP (Glycidyl azide polymer) or Polynimmo (3-nitratomethyl-3-methyloxetane polymer).
11. (Currently amended) A liner according to ~~any one of claims 5-6~~ claim 5, wherein the binder is selected from lithium stearate or zinc stearate.
12. (Currently amended) A liner according to ~~any one of claims 5 to 11~~ claim 5, wherein the binder is present in the range of from 0.1 to 5% by mass.
13. (Currently amended) A liner according to ~~any preceding~~ claim 1, wherein the composition is particulate, the particles having a diameter 10 μ m or less.
14. (Original) A liner according to claim 13, wherein the particles are 1 μ m or less in diameter.
15. (Original) A liner according to claim 14, wherein the particles are 0.1 μ m or less in diameter.
16. (Currently amended) A liner according to ~~any preceding~~ claim 1, wherein the thickness of liner is selected in the range of from 1 to 10% of the liner diameter.
17. (Original) A liner according to claim 16 wherein the thickness of liner is selected in the range of from 1 to 5% of the liner diameter.
18. (Currently amended) A liner according to ~~any preceding~~ claim 1, wherein the thickness of the liner is non-uniform across the surface area of the liner.

19. (Currently amended) A liner according to ~~any preceding~~ claim 1, wherein the composition further comprises at least one further metal, wherein the at least one further metal is not capable of an exothermic reaction upon activation of the shaped charge liner.
20. (Original) A liner according to claim 19, wherein the at least one further metal is selected from copper, tungsten, or an alloy thereof.
21. (Currently amended) A shaped charge perforator comprising a liner according to ~~any preceding~~ claim 1.
22. (Currently amended) A perforator ~~according to claim 21~~ comprising a housing, a quantity of high explosive located within the housing and a liner according to ~~any preceding~~ claim 1 located within the housing so that the high explosive is positioned between the liner and the housing.
23. (Currently amended) A perforation gun comprising one or more shaped charge perforators according ~~any one of claims 21-2221~~ to claim 21.
24. (Currently amended) A method of completing an oil or gas well using one or more shaped charge liner according to ~~any one of claims 1-20~~ claim 1.
25. (Currently amended) A method of completing an oil or gas well using a one or more shaped charge perforators, according to ~~any one of claims 21-22~~ claim 21.
26. (Original) A method of completing an oil or gas well using one or more perforation guns according to claim 22.
27. (Currently amended) A method of improving fluid outflow from a well comprising the step of perforating the well using perforator according to ~~any one of claims 21-22~~ claim 21.
28. (New) A liner according to claim 6 wherein the binder is selected from a polymer.